

There is shown, in:

- In Figures 1 to 6, different profile parts are shown that differ substantially in their cross-section, which however remain constant in the case of the respective profile part over their length, wherein the length of the profile parts can in principle, be as desired. For practical purposes, such profile parts typically have lengths of approximately 6 m, but if they are sufficiently flexible they can also be wrapped into rolls and are then transportable in significantly greater lengths. Clearly, hollow profiles such as, for example, pipes, with the greatest variation of cross-section shapes can also be manufactured with the features according to the invention.

- Hardening is preferably done in a surface layer, the total cross-section of which
25 comprises between 1 and 50% of the total profile cross-section, or respectively the
wall thickness of the steel material.